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ABSTRACT

The invention relates to an initiator system for triggering a radical polymerization reaction of a preparation that contains monomers and/or oligomers having ethylenically unsaturated groups. The initiators used are open-chain and/or cyclic N, N-diacylhydroxylamines of the general formula R-CO-N(OH)-CO-R'. The invention also relates to a method for starting a radical polymerization reaction by way of the thermally initiated formation of oxyl radicals from open-chain and/or cyclic N,N-diacylhydroxylamines or the O-alkyl or O-acyl derivatives thereof having the general formulae R-CO-N(OH)-CO-R', R-CO-N(O-R)-CO-R' or R-CO-N(O-CO-R')-CO-R', wherein R, R'R and R' are the same or different organic substituents and R can be linked with R'.